

Data Sheet

QSAN Container Server

KS1 Series

Swift Container Platform for Workgroup DevOps and HomeLab Developers

Key Benefits

Plug-and-Play Engine

- Preconfigured for fast deployment, allowing IT teams to quickly integrate container workloads without complex setup
- Unified management interface simplifies operations by consolidating container and cluster monitoring into a single unified center

Scale as You Grow

- Cluster-ready architecture supports up to 8 nodes, enabling horizontal scaling to meet growing workload demands

Always-On Protection with Profession

- Stay protected with enterprise-grade data safeguards, including snapshots, real-time replication, and Rsync.
- Service Failover / Failback

Desktop Server for DevOps and Project Development

The QSAN KS1 Series (Kubernetes Server) is a container-native converged node designed to simplify the deployment and management of containerized environments. It integrates management and compute orchestration within a compact form factor, making it ideal for DevOps teams and Home Lab enthusiasts. With native support for stateful services, KS1 bridges the gap between agile container orchestration and enterprise-grade storage reliability.

Effortless Deployment with Streamlined Management

From initial setup to ongoing management, The KS1 series provides an intuitive graphical interface designed for streamlined deployment. Even without deep container experience, teams can quickly launch services, monitor resource usage, and scale deployments with just a few clicks, without any CLI operations.

Scale for the Best Resilience

Featuring a resilient scale-out architecture that supports cluster deployment of up to 8 nodes. As workloads grow, organizations can seamlessly scale computing resources without disruption or architectural changes. When devices are added to the Ethernet network, they are automatically clustered without complex setup.

Protect Service as Storage Dose

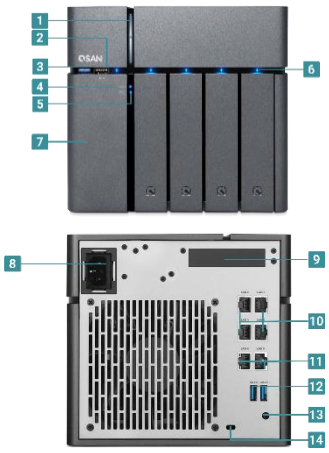
The KS1 series brings enterprise-class data protection beyond storage, safeguarding compute workloads with built-in features such as:

- **Snapshot** - Instant rollback and rapid recovery for persistent services
- **Rsync** - Reliable data replication across environments
- **QReplica** - Real-time node replication for high availability and failover readiness

Enterprise-Grade Security from the Core

Powered by XInsight, the KS1 series ensures comprehensive protection from edge to core. Security features like WORM, SED, RBAC, and Windows ACL work together to defend against unauthorized access, data tampering, and physical theft. Combined with integrated backup tools, your services remain secure, compliant, and resilient—even under the most demanding conditions.

Appearance



1. Power Button
2. USB 3.0 Port
3. USB Copy Button
4. LAN Status LED
5. PCIe Expansion Slot LED
6. HDD and SSD Status LED
7. Service Door
8. Power Port
9. Host Card Slot
10. 2.5 GbE LAN Port
11. 10 GbE LAN Port
12. USB 3.0 Port
13. Console Port
14. Kensington Lock

System Specification

Model Name	KS1205-4A
Architecture	Desktop Tower
CPU	
Processor	AMD® Ryzen™ 4-core
Memory	
Memory Module Pre-installed	8 GB DDR5 ECC DIMM
Total Memory Slots	2
Memory Expandable up to	64 GB
Storage	
Drive Bays	3.5" Slot x 4 2.5" Slot x 1 M.2 NVMe Slot x 2
Compatible Drive Type	3.5" SATA HDD & 2.5" SATA SSD M.2 NVMe SSD
Drive Interface	SATA (6 Gb/s) M.2 NVMe (PCIe Gen 4 x1)
Maximum Internal Raw Capacity	151 TB
Hot Swappable Drive	Yes (M.2 slot does not support hot plugging)
Connectivity Port	
PCIe Expansion	(Gen 4x8 Slot) x 1
Max. 2.5 GbE LAN Port	4 (onboard)
Max. 10 GbE LAN Port	4 (2 onboard)
Max. 25 GbE LAN Port	2
Expansion and External Port	
USB Port	3
Console Port	1
Software Specification	
Server OS	KSM
Cluster	Up to 8 nodes
RAID Type	0 / 1 / 5 / 6
Software Acceleration	SSD cache / Auto tiering / RDMA
Application Deployment	Docker / QComposer
Data Protection	Snapshot / Asynchronous / Synchronous (option)
Backup Service	Rsync
Management	XInsight / RESTful API / RBAC
Storage Support	CSI
Appearance	
Dimension (H x W x D) (mm)	177 x 190 x 235
Net Weight (kg)	3.6
Gross Weight (kg)	4
Others	
System Fan	1 pcs
Power Supply Unit	200 W x 1
Power Input	100 - 240 VAC, 50/60 Hz
Power Consumption	60 W / 205 BTU
Certification	CE / FCC / BSMI
Standard Warranty	System: 2 years

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